

**VVINAYAKA MISSION'S RESEARCH FOUNDATION  
(DEEMED TO BE UNIVERSITY), SALEM**

**Pharm.D DEGREE EXAMINATION – July 2021  
Third Year**

**PHARMACOLOGY - II**

Time: Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x 15 = 30)

1. Define the term Cell Signaling. Discuss any two pathways of Signal Transduction with suitable examples.
2. Classify antiviral drugs, pharmacology actions and therapeutic uses.
3. Define protein. Explain the mechanism and various steps involved in protein synthesis.

II. Write short answers on any **SIX** questions: (6 x 5 = 30)

4. Discuss the applications of Gene Transfer Technology.
5. Classify antiviral drugs and discuss the mechanism of Zidovudine
6. M- TOR inhibitors
7. Oral anticoagulants.
8. Acute toxicity studies
9. Clopidogrel.
10. Gene mapping.
11. Mechanism of protein synthesis.

III. Write short notes on any **FIVE** question: (5 x 2 = 10)

12. Give example for Beta lactamase inhibitor and write its therapeutic uses.
13. Mention the applications of human genome sequencing
14. Mention the uses of Triamterene.
15. Chronic toxicity.
16. Mutation.
17. P<sub>13</sub> - Kinase

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